

ABSTRACT

A chemical filter, characterized in that it uses, as an adsorption layer, an organic porous ion exchanger which has an open pore structure wherein a meso pore having an average diameter of 5 to 1,000 μm is formed in the wall between a macro pore and a macro pore connected with each other, has a total pore volume of 1 to 50 ml/g, has ion-exchange groups being uniformly distributed, and has an ion-exchange capacity of 3.0 mg equivalent/g-dry porous material or more.

The chemical filter can maintain the capacity of adsorbing and removing a gaseous contaminant even at an enhanced gas transmission rate, and can remove also a trace amount of a gaseous contaminant.